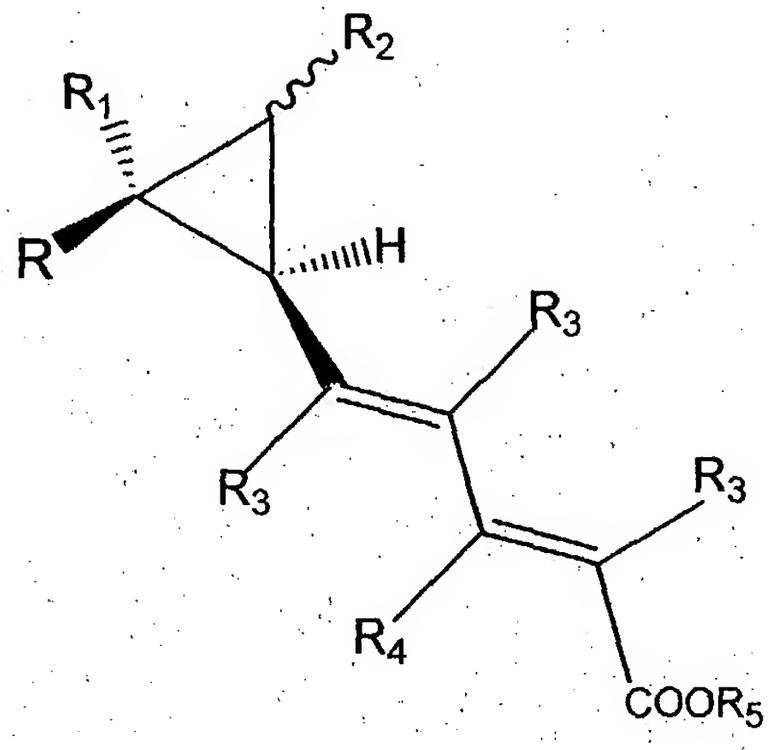
WHAT IS CLAIMED IS:

1. A compound of the formula



where a wavy line represents a bond in the up or in the down configuration,

a dashed arrow represents a bond in the down configuration,

a solid arrow represents a bond in the up configuration,

$\mathbf{R}_1$ is H, methyl, or ethyl, fluoro-substituted methyl or fluoro-substituted ethyl;

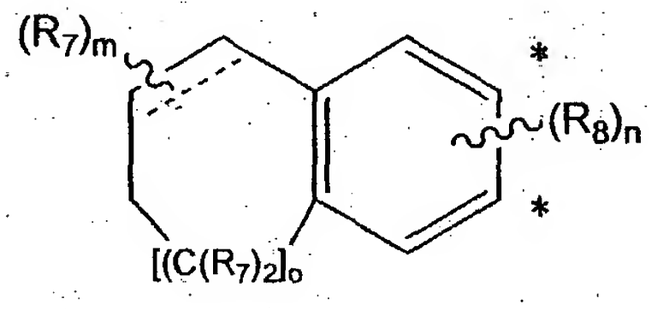
$\mathbf{R}_2$ is *normal* alkyl of 1 to 4 carbons, fluoro-substituted *normal* alkyl of 1 to 4 carbons, CH_2OCH_3, CH_2-O-CH_2-CH_3, CH_2-O-CH_2-OCH_3, CH_2-CH_2-O-CH_3, CH_2SCH_3, CH_2-S-CH_2-CH_3, CH_2-S-CH_2-OCH_3, CH_2-CH_2-S-CH_3, CH_2-S-CH_2-S-CH_3, CH_2-O-CH_2-S-CH_3, CH_2NHCH_3, CH_2-NH-CH_2-CH_3, CH_2-NH-CH_2-OCH_3, CH_2-CH_2-NH-CH_3, CH_2-O-CH_2-$NHCH_3$;

$\mathbf{R}_3$ is H or F;

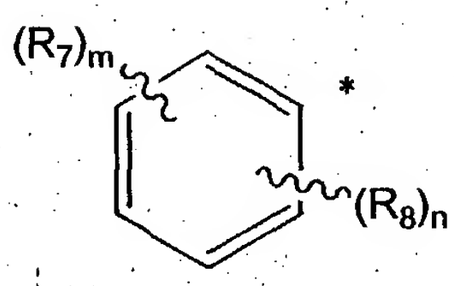
$\mathbf{R}_4$ is H, alkyl of 1 to 3 carbons;

$\mathbf{R}_5$ is H, alkyl of 1 to 6 carbons, OCH_2OR_6 or OCH_2OCOR_6 where $\mathbf{R}_6$ is alkyl of 1 to 3 carbons, and

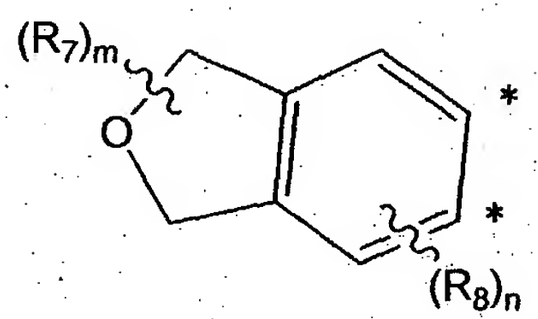
R is selected from the groups consisting of the radicals defined by **formulas (a)** through **(f)**



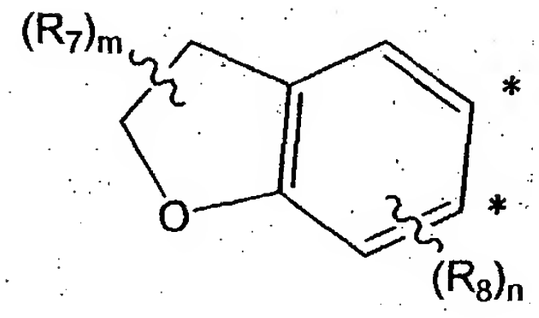
Formula (a)



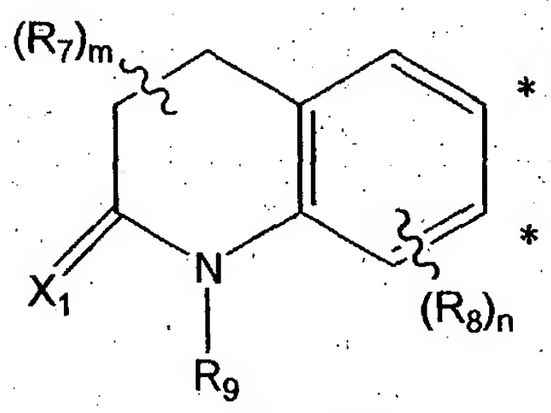
Formula (b)



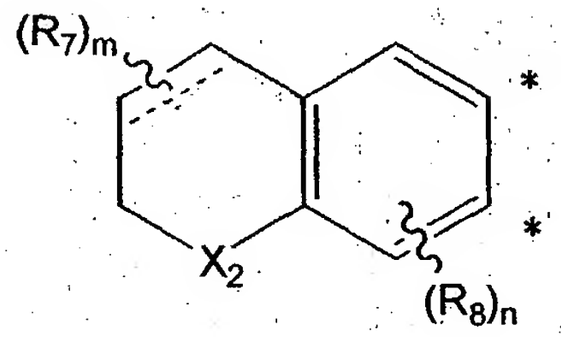
Formula (c)



Formula (d)



Formula (e)



Formula (f)

where the dashed line in a ring represents a bond, or absence of a bond,

a * denotes a ring carbon to which the pentadienoyl-cyclopropyl group is attached, with the proviso that the pentadienoyl-cyclopropyl group is attached to only one carbon on the ring;

$\mathbf{X}_1$ is O or S attached to the adjacent carbon with a double bond, or $\mathbf{X}_1$ represents two hydrogens or $\mathbf{R}_7$ groups attached to the adjacent carbon;

$\mathbf{X}_2$ is O or S;

m is an integer having the values 0 to 6;

n is an integer having the values 0 to 3;

o is an integer having the values 0 or 1;

$\mathbf{R}_7$ is independently H, alkyl of 1 to 6 carbons, F, Cl, Br or I;

$\mathbf{R_8}$ is independently H, alkyl of 1 to 6 carbons, F, Cl, Br, I, $OC_{1\text{-}6}$alkyl or $SC_{1\text{-}6}$alkyl,

$\mathbf{R_9}$ is H or alkyl of 1 to 6 carbons, or a pharmaceutically acceptable salt of said compound.

2. A compound in accordance with Claim 1 where $\mathbf{R_2}$ is CH_2OCH_3 or $CH_2OCH_2CH_3$.

3. A compound in accordance with Claim 1 where $\mathbf{R_7}$ is alkyl of 1 to 6 carbons.

4. A compound in accordance with Claim 1 where $\mathbf{R_8}$ is H or alkyl of 1 to 6 carbons.

5. A compound in accordance with Claim 1 where **R** is represented by **formula (a)**.

6. A compound in accordance with Claim 5 where the dashed line in **formula (a)** represents absence of a bond, and where **o** is one (1).

7. A compound in accordance with Claim 6 where $\mathbf{R_2}$ is CH_2OCH_3 or $CH_2OCH_2CH_3$.

8. A compound in accordance with Claim 6 where $\mathbf{R_7}$ is alkyl of 1 to 6 carbons.

9. A compound in accordance with Claim 6 where $\mathbf{R_8}$ is H or alkyl of 1 to 6 carbons.

10. A compound in accordance with Claim 1 where **R** is represented by **formula (b)**.

11. A compound in accordance with Claim 10 where $\mathbf{R_2}$ is CH_2OCH_3 or $CH_2OCH_2CH_3$.

12. A compound in accordance with Claim 10 where $\mathbf{R_7}$ is alkyl of 1 to 6 carbons.

13. A compound in accordance with Claim 10 where $\mathbf{R}_8$ is H or alkyl of 1 to 6 carbons.

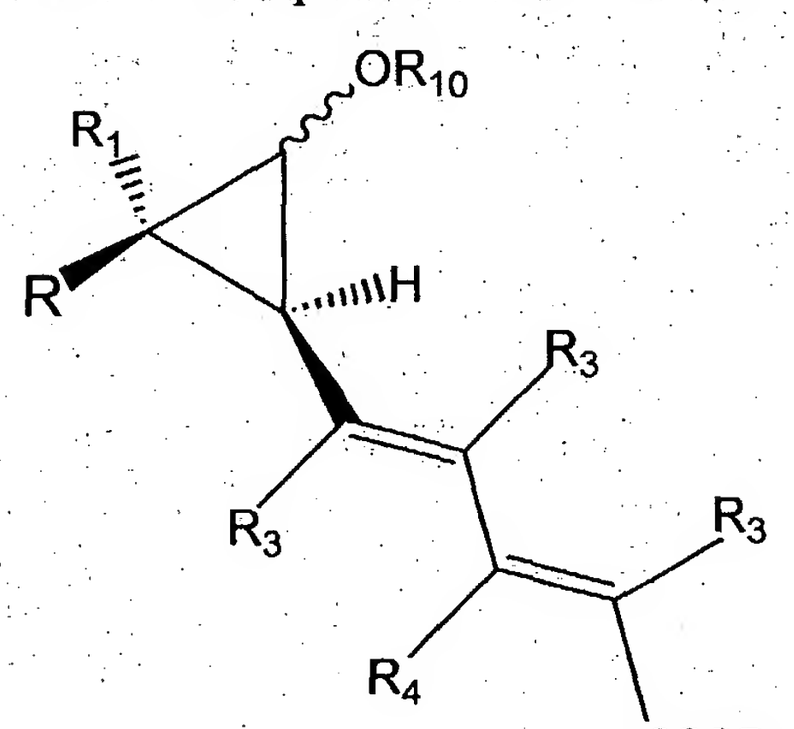
14. A compound in accordance with Claim 1 where **R** is represented by **formula (c)**.

15. A compound in accordance with Claim 1 where **R** is represented by **formula (d)**.

16. A compound in accordance with Claim 1 where **R** is represented by **formula (e)**.

17. A compound in accordance with Claim 1 where **R** is represented by **formula (f)**.

18. A compound of the formula



where a wavy line represents a bond in the up or in the down configuration,

a dashed arrow represents a bond in the down configuration,

a solid arrow represents a bond in the up configuration,

$\mathbf{R}_1$ is H, methyl, or ethyl, fluoro-substituted methyl or fluoro-substituted ethyl;

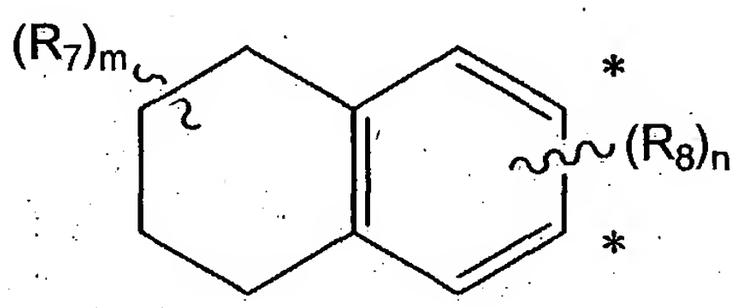
$\mathbf{R}_{10}$ is CH_3, CH_2-CH_3, or CH_2-OCH_3,

$\mathbf{R_3}$ is H or F;

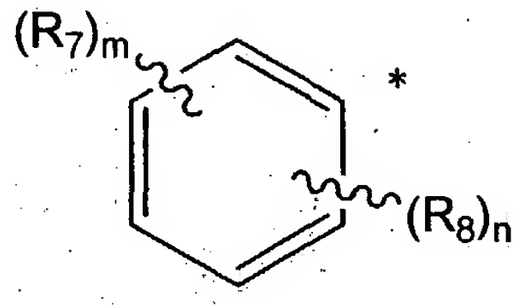
$\mathbf{R_4}$ is H, alkyl of 1 to 3 carbons;

$\mathbf{R_5}$ is H, alkyl of 1 to 6 carbons, OCH_2OR_6 or OCH_2OCOR_6 where $\mathbf{R_6}$ is alkyl of 1 to 3 carbons, and

R is selected from the groups consisting of the radicals defined by **formulas (g)** and **(h)**



formula (g)



formula (h)

where a * denotes a ring carbon to which the pentadienoyl-cyclopropyl group is attached, with the proviso that the pentadienoyl-cyclopropyl group is attached to only one carbon on the ring;

m is an integer having the values 0 to 8;

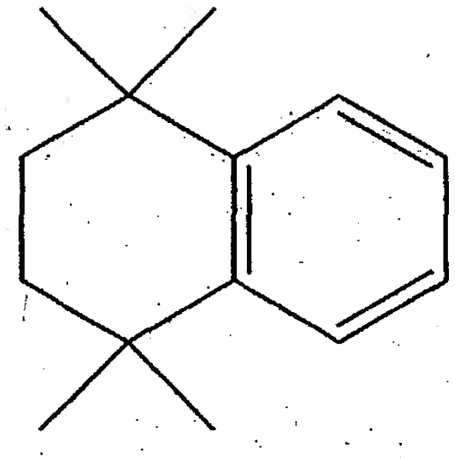
n is an integer having the values 0 to 3;

$\mathbf{R_7}$ is independently H, alkyl of 1 to 6 carbons, F, Cl, Br or I;

$\mathbf{R_8}$ is independently H, alkyl of 1 to 6 carbons, F, Cl, Br, I, $OC_{1\text{-}6}$alkyl or $SC_{1\text{-}6}$alkyl, or a pharmaceutically acceptable salt of said compound.

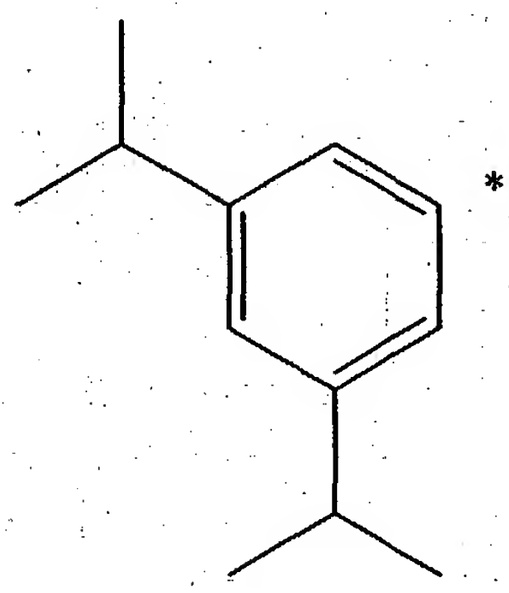
19. A compound in accordance with Claim 18 where **R** is represented by **formula (g).**

20. A compound in accordance with Claim 19 where **R** is represented by the formula



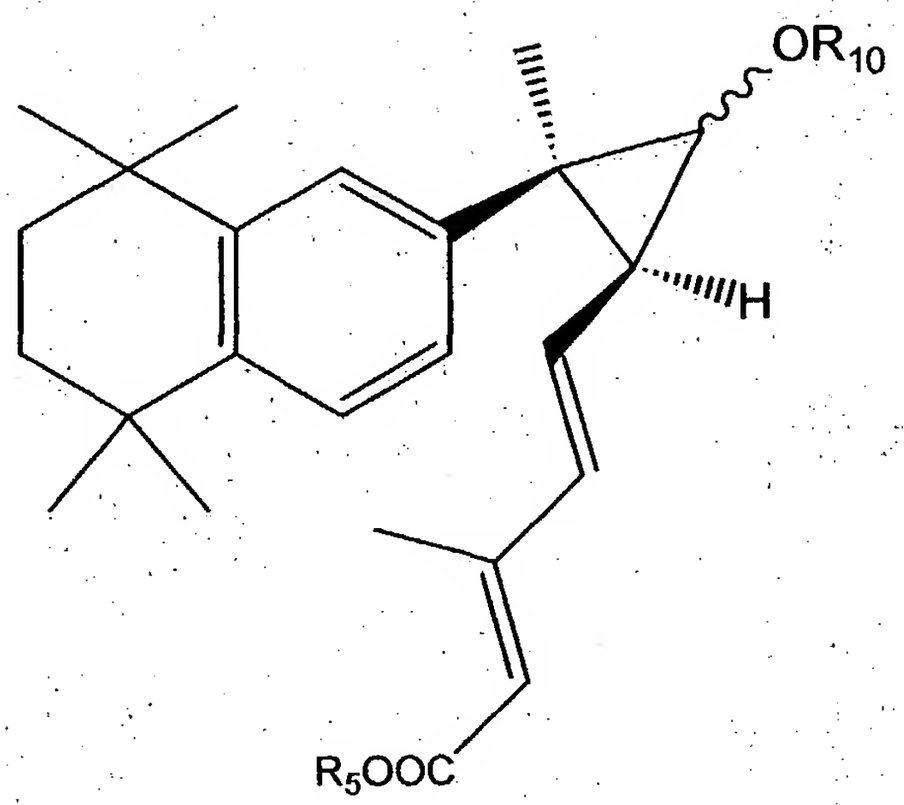
where the * denotes a ring carbon to which the pentadienoyl-cyclopropyl group is attached.

21. A compound in accordance with Claim 18 where **R** is represented by the formula



where the * denotes a ring carbon to which the pentadienoyl-cyclopropyl group is attached.

22. A compound of the formula



where a wavy line represents a bond in the up or in the down configuration,

a dashed arrow represents a bond in the down configuration,

a solid arrow represents a bond in the up configuration,

$\mathbf{R}_{10}$ is methyl or ethyl, and

$\mathbf{R}_5$ is H, alkyl of 1 to 6 carbons, OCH_2OR_6 or OCH_2OCOR_6 where $\mathbf{R}_6$ is alkyl of 1 to 3 carbons, or a pharmaceutically acceptable salt of said compound.

23. A compound in accordance with Claim 22 where the wavy line represents a bond in the up configuration.

24. A compound in accordance with Claim 23 where $\mathbf{R}_{10}$ is methyl.

25. A compound in accordance with Claim 24 where $\mathbf{R}_5$ is H, ethyl, or a pharmaceutically acceptable salt of said compound.

26. A compound in accordance with Claim 23 where $\mathbf{R}_{10}$ is ethyl.

27. A compound in accordance with Claim 26 where $\mathbf{R}_5$ is H, ethyl, or a pharmaceutically acceptable salt of said compound.

28. A compound in accordance with Claim 22 where the wavy line represents a bond in the down configuration.

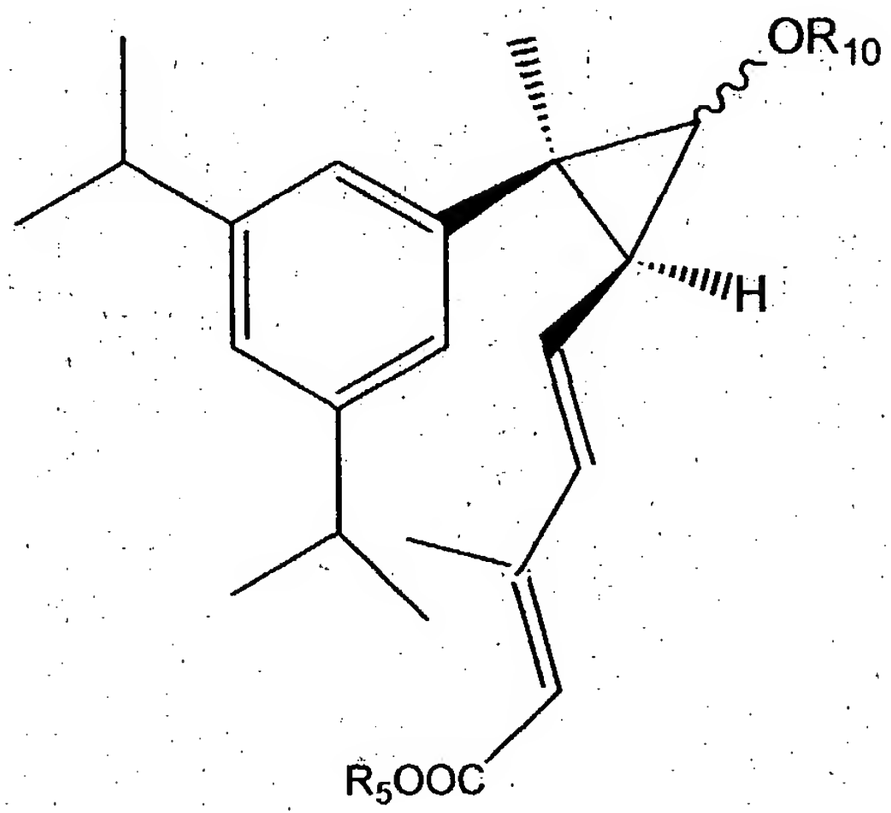
29. A compound in accordance with Claim 28 where $\mathbf{R}_{10}$ is methyl.

30. A compound in accordance with Claim 29 where $\mathbf{R}_5$ is H, ethyl, or a pharmaceutically acceptable salt of said compound.

31. A compound in accordance with Claim 28 where $\mathbf{R}_{10}$ is ethyl.

32. A compound in accordance with Claim 31 where $\mathbf{R}_5$ is H, ethyl, or a pharmaceutically acceptable salt of said compound.

33. A compound of the formula



where a wavy line represents a bond in the up or in the down configuration,

a dashed arrow represents a bond in the down configuration,

a solid arrow represents a bond in the up configuration,

$\mathbf{R}_{10}$ is methyl or ethyl, and

$\mathbf{R}_5$ is H, alkyl of 1 to 6 carbons, OCH_2OR_6 or OCH_2OCOR_6 where $\mathbf{R}_6$ is alkyl of 1 to 3 carbons, or a pharmaceutically acceptable salt of said compound.

34. A compound in accordance with Claim 33 where the wavy line represents a bond in the up configuration.

35. A compound in accordance with Claim 34 where $\mathbf{R}_{10}$ is methyl.

36. A compound in accordance with Claim 35 where $\mathbf{R}_5$ is H, ethyl, or a pharmaceutically acceptable salt of said compound.

37. A compound in accordance with Claim 34 where $\mathbf{R}_{10}$ is ethyl.

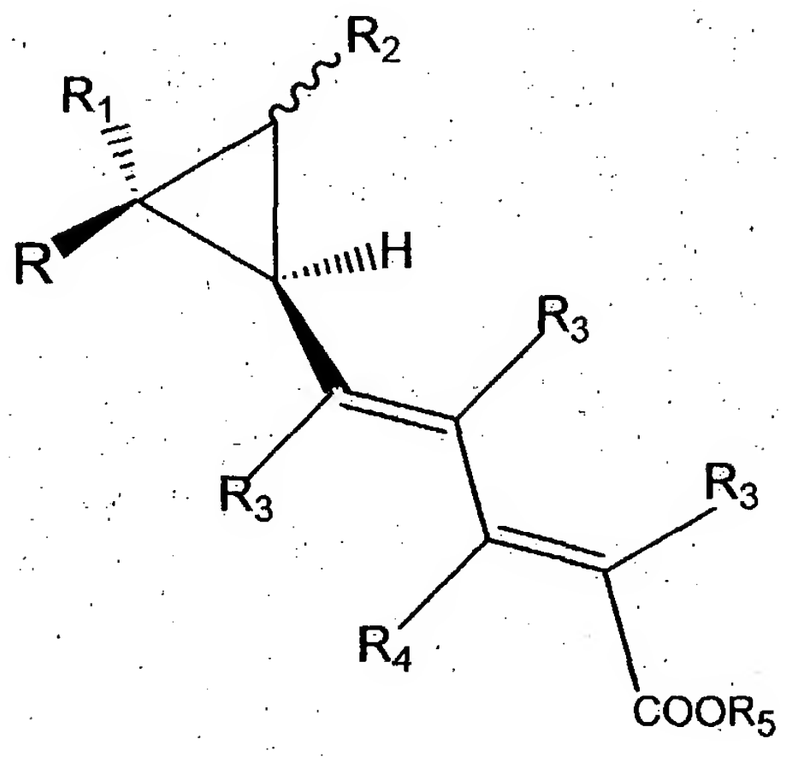
38. A compound in accordance with Claim 37 where $\mathbf{R}_5$ is H, ethyl, or a pharmaceutically acceptable salt of said compound.

39. A compound in accordance with Claim 33 where the wavy line represents a bond in the down configuration.

40. A compound in accordance with Claim 39 where $\mathbf{R}_{10}$ is methyl.

41. A compound in accordance with Claim 40 where $\mathbf{R}_5$ is H, ethyl, or a pharmaceutically acceptable salt of said compound.

42. A process for administering to a diabetic mammal to reduce the serum glucose level of said mammal a compound of the formula



where a wavy line represents a bond in the up or in the down configuration,

a dashed arrow represents a bond in the down configuration,

a solid arrow represents a bond in the up configuration,

$\mathbf{R}_1$ is H, methyl, or ethyl, fluoro-substituted methyl or fluoro-substituted ethyl;

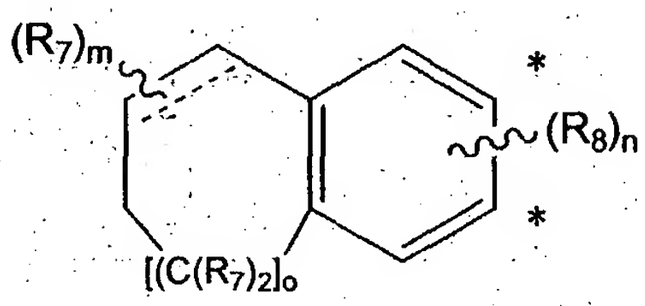
$\mathbf{R}_2$ is *normal* alkyl of 1 to 4 carbons, fluoro-substituted *normal* alkyl of 1 to 4 carbons, CH_2OCH_3, CH_2-O-CH_2-CH_3, CH_2-O-CH_2-OCH_3, CH_2-CH_2-O-CH_3, CH_2SCH_3, CH_2-S-CH_2-CH_3, CH_2-S-CH_2-OCH_3, CH_2-CH_2-S-CH_3, CH_2-S-CH_2-S-CH_3, CH_2-O-CH_2-S-CH_3, CH_2NHCH_3, CH_2-NH-CH_2-CH_3, CH_2-NH-CH_2-OCH_3, CH_2-CH_2-NH-CH_3, CH_2-O-CH_2-$NHCH_3$;

$\mathbf{R}_3$ is H or F;

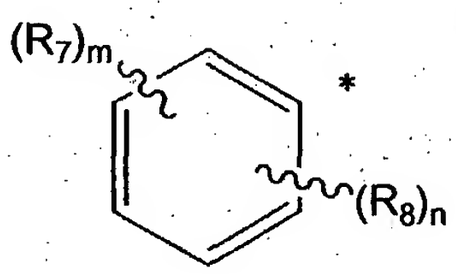
$\mathbf{R}_4$ is H, alkyl of 1 to 3 carbons;

$\mathbf{R}_5$ is H, alkyl of 1 to 6 carbons, OCH_2OR_6 or OCH_2OCOR_6 where $\mathbf{R}_6$ is alkyl of 1 to 3 carbons, and

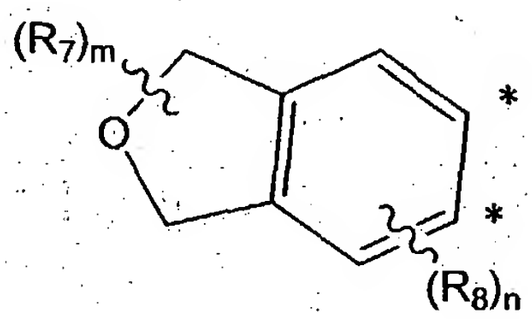
R is selected from the groups consisting of the radicals defined by **formulas (a)** through **(f)**



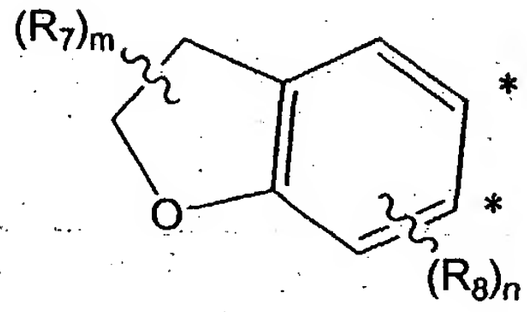
Formula (a)



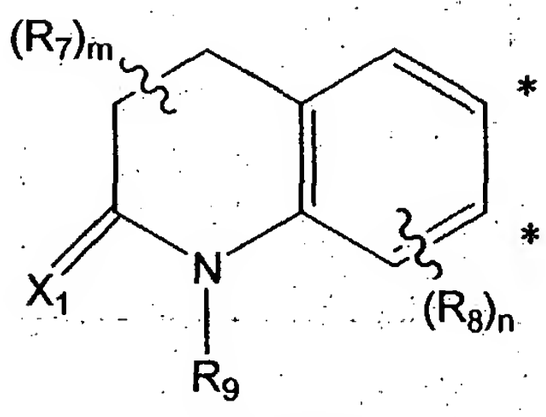
Formula (b)



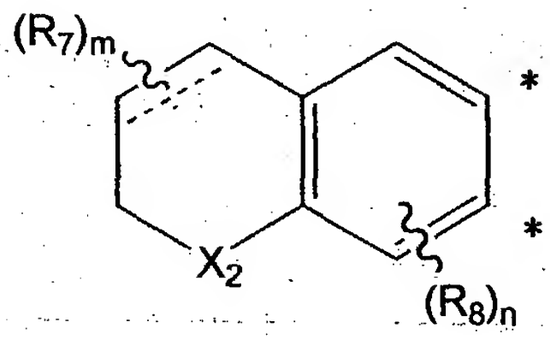
Formula (c)



Formula (d)



Formula (e)



Formula (f)

where the dashed line in a ring represents a bond, or absence of a bond,

a * denotes a ring carbon to which the pentadienoyl-cyclopropyl group is attached, with the proviso that the pentadienoyl-cyclopropyl group is attached to only one carbon on the ring;

$\mathbf{X}_1$ is O attached to the adjacent carbon with a double bond, or $\mathbf{X}_1$ represents two hydrogens, or $\mathbf{R}_7$ groups attached to the adjacent carbon;

$\mathbf{X}_2$ is O or S;

m is an integer having the values 0 to 6;

n is an integer having the values 0 to 3;

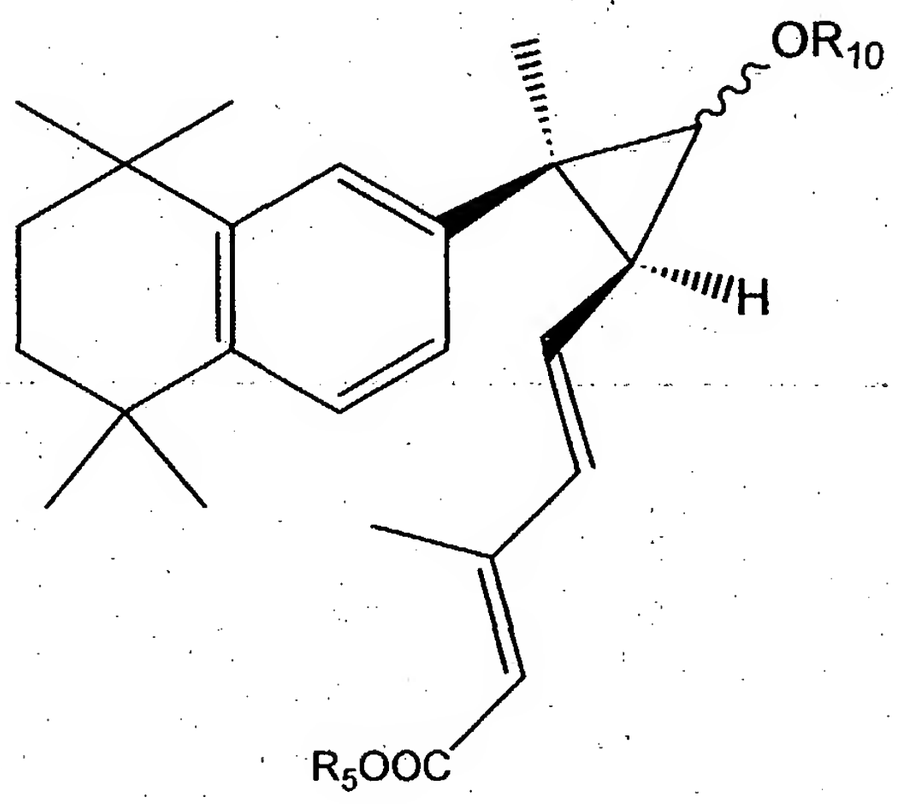
o is an integer having the values 0 or 1;

$\mathbf{R}_7$ is independently H, alkyl of 1 to 6 carbons, F, Cl, Br or I;

$\mathbf{R}_8$ is independently H, alkyl of 1 to 6 carbons, F, Cl, Br, I, $OC_{1\text{-}6}$alkyl or $SC_{1\text{-}6}$alkyl,

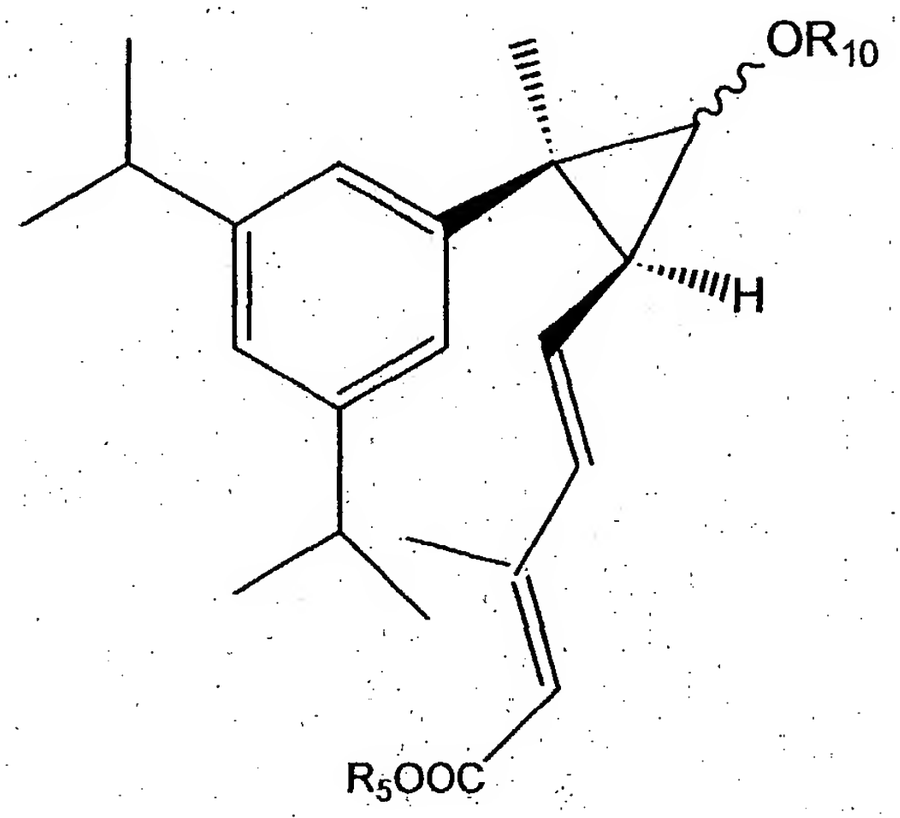
$\mathbf{R}_9$ is H or alkyl of 1 to 6 carbons, or a pharmaceutically acceptable salt of said compound.

43. A process in accordance with Claim 42 where the compound used in the process is in accordance with the formula



where $\mathbf{R}_{10}$ is methyl or ethyl.

44. A process in accordance with Claim 42 where the compound used in the process is in accordance with the formula



where $\mathbf{R}_{10}$ is methyl or ethyl.